



## GP-1 CODING SEQUENCE

- SEQ ID NO: 38 and 39

GAAP1 ATGGCATTAGGTAATCAAAAGTCCACAGTAGTTGAATTCAGCAATAAAGATGCTCTGAAATTACAGTG 70  
PRDII ATGGCATTAGGTAATCAAAAGTCCACAGTAGTTGAATTCAGCAATAAAGATGCTCTGAAATTACAGTG 70

GAAP1 AGCAAGATAAAGAAATTCCTTAATCAAAAGTGAACCAAGACAAATTAAATATTTGATGAGGATATA 140  
PRDII AGCAAGATAAAGAAATTCCTTAATCAAAAGTGAACCAAGACAAATTAAATATTTGATGAGGATATA 140

GAAP1 GTCAANTGAAGAGTATGTATATGTCGAGGCCAGGGGAGGAGGAATTCATTGTGAGAGATGTGGAAATA 210  
PRDII GTCAANTGAAGAGTATGTATATATTCGAGGCCAGGGGAGGAGGAATTCATTGTGAGAGATGTGGAAATA 210

GAAP1 CGTTGTAGAAACCTAGCATTGTAAAGAAACACATAGAAACCTACAGATGTGCGGCCCTACCACTGCA 280  
PRDII CGTTGTAGAAACCTAGCATTGTAAAGAAACACATAGAAACCTACAGATGTGCGGCCCTACCACTGCA 280

GAAP1 CTTACTGTAACTTCTCTCTTAAAGACTAAAGGAATCTGACAAACACATGAGTCCAGGCCACTAGCAA 350  
PRDII CTTACTGTAACTTCTCTCTTAAAGACTAAAGGAATCTGACAAACACATGAGTCCAGGCCACTAGCAA 350

GAAP1 GAAATGTGTGGATTTAGGCGTCTCAGTAGGTTTAATGATCAACAGGTTACAGAGATCAGTTGAAAA 420  
PRDII GAAATGTGTGGATTTAGGCGTCTCAGTAGGTTTAATGATCAACAGGTTACAGAGATCAGTTGAAAA 420

GAAP1 CAGAGATTGAGTTATGAGGGATCTGGATATGATCTTGAGCAATCTGATGGGCCAGATGAGGATCACAATG 490  
GAAP1 CAGAGTTTCACTTATGAGGGATCTGGATATGATCTTGAGCAATCTGATGGGCCAGATGAGGATCACAATG 490

GAAP1 AAATGTAGACGATGTAGGACAGCCAGGCTGATCTGCTCTGACGCCACCTCAGTACAGCTAG 560  
PRDII AAATGTAGACGATGTAGGACAGCCAGGCTGATCTGCTCTGACGCCACCTCAGTACAGCTAG 560

GAAP1 CCGGCAGCACTTCCATCTAGAGTAGCCTTCAGGACCTGTGAGTACTGACAGGATGTACAGATCAC 630  
PRDII CCGGCAGCACTTCCATCTAGAGTAGCCTTCAGGACCTGTGAGTACTGACAGGATGTACAGATCAC 630

GAAP1 GATTGCTTTTCTGGGGTACACAGGACCAATGGAAGTTCTCTGCCCAGGGGCTGCTCACCAGATGACTG 700  
PRDII GATTGCTTTTCTGGGGTACACAGGACCAATGGAAGTTCTCTGCCCAGGGGCTGCTCACCAGATGACTG 700

GAAP1 TCTTGAGCACAGCACAGTCTGACTACATAGGAAGACACTCTCTGCGGGAGGGCAGGCAGGCTGCTGC 770  
PRDII TCTTGAGCACAGCACAGTCTGACTACATAGGAAGACACTCTCTGCGGGAGGGCAGGCAGGCTGCTGC 770

GAAP1 GACAGATGAAAGCACACANTTCGGTCTGAGCACTTCCAGGTCCCGGTGTGATCAGATGTCTGTGGAC 840

FIGURE 14A (a)



## REPLACEMENT SHEET

WO 02/098916

PCT/EP02/07064

18 / 28

PRDII CGTTCATGCACAGGGAGCTCCAGAAATGCGAGCTTCCCAAGCTAAGCATGCGGACACAACTCCAGCAG 1680

GAAP1 ACTTCTGTAGCCAGCGCAAAACAGGTCAGCAGGACCGAGTCTCTCAGGGGTTACCTACAGTCCAGGGG 1750

PRDII ACTTCTGTAGCCAGCGCAAAACAGGTCAGCAGGACCGAGTCTCTCAGGGGTTACCTACAGTCCAGGGG 1750

GAAP1 AAAATGCAAAAAAAGTTCTGAATCCACTGCCCCCTGCAGGTGACCTTCAGAGGCTTGAATGGCTGAGTAA 1820

PRDII AAAATGCAAAAAAAGTTCTGAATCCACTGCCCCCTGCAGGTGACCTTCAGAGGCTTGAATGGCTGAGTAA 1820

GAAP1 AATGGACACAGAGAGGCTGCGCTGGCCAAATCAGCTGAGGCCAAGGCTGAACTCACTTCCCTACAGGGC 1890

PRDII AATGGACACAGAGAGGCTGCGCTGGCCAAATCAGCTGAGGCCAAGGCTGAACTCACTTCCCTACAGGGC 1890

GAAP1 CAACCCAGGCTCCAGCTCACAACTCTGCTGAGGCCACATTCTGAGTTTTTACAAAGGCTCCAGGCCAGC 1960

PRDII CAACCCAGGCTCCAGCTCACAACTCTGCTGAGGCCACATTCTGAGTTTTTACAAAGGCTCCAGGCCAGC 1960

↓

GAAP1 AGACTCTCTCTCCAGACAGACAGGTTCCAGGCCACAGGACTACCGGCGAGCCAGGCCACTGTGCACCTT 2030

PRDII AGACTCTCTCTCCAGACAGACAGGTTCCAGGCCACAGGACTACCGGCGAGCCAGGCCACTGTGCACCTT 2030

GAAP1 CAGCGAGCTGAGCGAGCGATGCTGACGAGGACAGGCTTGTGATAGCAACTGATG 2084

PRDII CAGCGAGCTGAGCGAGCGATGCTGACGAGGACAGGCTTGTGATAGCAACTGATG 2084

FIGURE 14A (c)

## REPLACEMENT SHEET

WO 02/098916

PCT/EP02/07064

1 GAAP-1 CODING SEQUENCE

19 / 28

SEQ ID NO: 44

ATGGGGCAGAAGTTTCAAAAAAGAGA

GCATTAGGTAAATCAAAGTCCACAGTAGTTGAATTCAGCAATTAAGTTGCTCTGAAATTAACAGT

GAAP1 ACCAGATTAAGAAATTCCTTAATCAAAGTGAACCAAGAGAAATTAATAATTGATGGAGCTATTA

GAAP1 GTCAATTCAGAGATATGTATATGTCCGGCAGGGGAGGGAATTAATTTGTGAGAAATGTCATTA

GAAP1 CGTTGTAAAGAACTAGCATGTTAAAGAAACACATACCAACCATACAGATGTCCGCCCCACCACTGCA

GAAP1 CTTACTGTACCTTCTCTCTTAAGCTAAAGGAATCTGACAAACACATGAAGTCCAGGCACATAGCAA

GAAP1 GAATGTGAGGATTTAGCGCTCAGTAGCTTAATGATCAGCAGGTACAGAGATCAGATGAATA

GAAP1 CAGCAATTCAGTTATGAGGCTCTGGATATGCTTTGAGCAATCTGATGGCCAGATGAGGATCAGATG

GAAP1 AAATGTAGAGGATGATGAGGACAGGAGGCTGAATCAGTCTGTCAGCCACCCCTCAGTCAAGGCTAG

GAAP1 CCCCAGCACTTTCATCTAGAGTAGCTCAGGACCCCTGTCAGTACTGAGGAGGATGTCAGGTCACC

GAAP1 GATTGCTTTTCTGGGCTACACAGGACCCATGGAAGTTCTGCCCAGGGGGCTGCTACCCAGATGCTG

GAAP1 TCTTGAGCACAGCACAGTCTGACTACATAGGAGACATCTCTCCGGGGAGGCCAGCCAGGCTGCTGC

GAAP1 GACAGATGAAGACACAAATTCCTCTGTAGACATTCAGGTCCCGTGTGATCAGATGCTGTGGAC

FIGURE 14B (a)

GAAP1 TACCTGAGTCAGAGAAATTCCTGAGAAGTTCATGGCAGGAAAGCTGTTCCTATAACACAGAGGOCAT

GAAP1 CATCTGTAGACTTCCTCTCTGCTGCAGCTGAGCAGAGGOCCTAGCAGCAGGCGGCATGCTTTCGTGGC

GAAP1 CTCACCATCTCTGACCTCAAGACAGAGCAGCAATACTCTACAGGOCCTCCAGGCTTGCCTTCT

GAAP1 CCCCACACTCATTGTGTTAGCCACCTTCCTTTGCAATCCAGCAGCAATCCAGGACACCTTATATATGG

GAAP1 TTCCAGTTGGGGGATCCATGTGGTACCTGCTGGGCTCAGATCTCCAGCTTTGTGGGCTTCAGGCTGG

GAAP1 ACCAGTGCAGCTCAGATCCCTGCTGTGAGTGTGCTTCCAGAACTTTGGGTACTCATTAGGAATACGGTC

GAAP1 ACAGAGTGTCTGGCACTACAACCCCTGCTGGAGTGGCTGAATTAGCAGTGTGTGGCATGTATTCTTA

GAAP1 TGGGCAATCCGGGTGGCAGGCTTCAGAACTTAGTACCCAGGCTTGCAGTCACTCCCTCTGTTAG

GAAP1 CATCGAAACCTCAATATTGTAGGCTTAGCCATACAAATATGGCCCCACAAGTCCATCCACAGGACTG

GAAP1 GCTCTGAATGCTGTGGACTCCAGGTTCTGACTGCAAAACCTTCATCAAAAGCAGCCCCGGCCCTCAGG

GAAP1 CACACATTCCAGGTCTCCAGTCTTTGAACATAGCAATGGCCACCTTATTCCTCTCAGTCAGTCAAGTAGC

GAAP1 CGTTGATGCACAGGGAGCTCCGCAATGCCAGCTTCCCAAGCAAGCATGGGAGACACAAACCAAGCAG

PRDII CGTTGATGCACAGGGAGCTCCAGAAATGCCAGCTTCCCAAGCAAGCATGCCAGACACAATCCAGCAG

GAAP1 ACTTCTGTAGCCAGGGCAATCCAGGTACGACGGACCTAGTCTCTCAGGGGTTAONTACAGTCCAGGGG

GAAP1 AAATGCAAAAAAGTTCTGAATCCACTGCCCCCTGCCAGGTACCATGCCAAGGCTTGATGGCCTGAGTAA

GAAP1 PATGGACACAGAGAAGGCTGCCCTGGGCAATCACTGTAGGCCAAGGCTGAATCACTTCCATACAGGGC

GAAP1 CAACCAGGGTCCAGGTACAACTCTGCTGAGGGACATTCTGAGTTTTTCAAAGGCCCTCAGGCCAGC

GAAP1 AGACTCTCTCTCCAGACAGACAGGTGCCAGGGCCAGCACTACGGGGAGGCAAGGCCACTGTGCACTT

GAAP1 CAGGGAGGTACAGCAGGATGATGACGGGACAGGCTTGTGATAGCAACTGATG

FIGURE 14B (c)

## REPLACEMENT SHEET

WO 02/098916

PCT/EP02/07064

GAPP-2 coding seq

22/28

SEQ ID NO: 45

1 ATGGGGCAGA AGTTTCAAAA AAAGAAATCT TACAGGCTGG TGTTAAAGGA  
TACCCCGTCT TCAAAGTTTT TTTCTTTAGA ATGTCGGACC ACAATTTCTT

51 ACTTCGGAAT CCCTTAAAGA GAGCATTAGG TAATCAAAG TCCACAGTAG  
TGAAGCCTTA GGAATTTCT CTCGTAATCC ATTAGTTTTT AGGTGTCATC

101 TTGAATTCAG CAATAAGAT GCCTCTGAAA TTAACAGTGA GCAAGATAAA  
AACTTAAGTC GTTATTTCTA CGGAGACTTT AATTGTCACT CGTTCTATTT

151 GAAAATTCCT TAATCAAAG TGAACCAAGA AGAATTAA/A TATTTGATGG  
CTTTTAAGGA ATTAGTTTTT ACTTGTTCT TCTTAATTTT ATAACCTACC

201 AGGATATAAG TCAATGAAG AGTATGTATA TATCCGAGGC AGGGGAAGAG  
TCCTATATTC AGTTTACTTC TCATACATAT ATAGGCTCCG TCCCCTTCYC

251 GAAAATACAT TTGTGAAGAA TGTGGAATAC GTTGTAGAA ACCTAGCATG  
CTTTTATGTA AACACTTCTT ACACCTTATG CAACATTCTT TGGATCGTAC

301 TTAAAGAAAC ACATACGAAC CCATACAGAT GTCCGCCCTT ACCACTGCAC  
AATTTCTTTG TGTATGCTTG GGTATGTCTA CAGGCGGGGA TGGTGACGTG

351 TTAATGTAAC TTCTCCTTTA AGACTAAAGG AAATCTGACA AAACACATGA  
AATGACATTG AAGAGGAAAT TCTGATTTCC TTTAGACTGT TTTGTGTAAT

401 AGTCCAAGGC ACATAGCAAG AAATGTGTGG ATTTAGGCTT CTCAGTAGGT  
TCAGGTTCCG TGTATCGTTC TTTACACACC TAAATCCGTA GAGTCATCCA

451 TTAATAGATG AACAGGATAC AGAAGAATCA GATGAAAAAC AGAGATTCAG  
AATTATCTAC TTGTCTATG TCTTCTTAGT CTACTTTTIG TCTCTAAGTC

501 TTATGAGCGA TCTGGATATG ATCTTGAAGA ATCTGATGGC CCAGATGAGG  
AATACTCGCT AGACCTATAC TAGAATTCT TAGACTACCG GGTCTACTCC

551 ATGACAATGA AAATGAAGAC GATGATGAGG ACAGCCAGGC TGAATCAGTC  
TACTGTACTT TTTACTTCTG CTACTACTCC TGTGCGTCCG ACTTAGTCAG

601 CTGTACGCCA CACCCTCAGT CACAGCTAGC CCGCAGCACC TTCCATCTAG  
GACAGTCGGT GTGGGAGTCA GTGTCGATCG GCGCTCGTGG AAGGTAGATC

651 AAGTAGCCTT CAGGACCCTG TGAGTACTGA CGAGGATGTC AGGATCACC  
TTCATCGGAA GTCCTGGGAC ACTCATGACT GCTCCTACAG TCCTAGTGGC

701 ATTGCTTTTC TGGGGTACAC ACGGACCCAA TGGACGTTCT GCCCAGGGCG  
TAACGAAAAG ACCCATGTG TGCCTGGGTT ACCTGCAAGA CGGGTCCCGC

751 CTGCTCACCA GAATGACTGT CTTGAGCACA GCACAGTCTG ACTACAATAG  
GACGAGTGGT CTTACTGACA GGACTCGTGT CGTGTCAGAC TGATGTTATC

801 GAAGACACTC TCTCCGGGGA AGGCCAGGCA GCGTGCTGCT AGAGATGAAA  
CTTCTGTGAG AGAGGCCCTT TCCGGTCCGT CGCAGCAGC TCTCTACTTT

851 ACGACACAAT TCCGTCTGTA GACACTTCCA GGTCCCGCT TCAATCAGATG  
TGCTGTGTTA AGGCAGACAT CTGTGAAGGT CCAGGGGCA AGTAGTCTAC

901 TCTGTGGACT ACCCTGAGTC AGAAGAAATT CTGAGAAGTT CTATGGCAGG  
AGACACCTGA TGGGACTCAG TCTTCTTTAA GACTCTTCAA GATACCGTCC

FIGURE 14C (a)

23 / 28

```

951  AAAAGCTGTT GCTATAACAC AGAGCCCATC ATCTGTAAGA CTTCTCCTG
      TTTTCGACAA CGATATTGTG TCTCGGGTAG TAGACATTCT GAAGGAGGAC
-----
1001  CTGCAGCTGA GCACAGCCCC CAGACAGCAG CGGGGATGCC TTCTGTGGCC
      GACCTCGACT CGTGTGCGGG GTCTGTGCTC GCCCTACCG AAGACACCGG
-----
1051  TCACCACATC CTGACCCTCA AGAACAGAAG CAGCAAATAA CTCTACAGCC
      AGTGGTGTAG GACTGGGAGT TCTTGTCTTC GTCGTTTATT GAGATGTCGG
-----
1101  GACTCCAGGC TTGCCTTCTC CCCACACTCA TTTGTTTAGC CACCTTCCTT
      CTGAGGTCCG AACGGAAGAG GGGTGTGAGT AAACAAATCG GTGGAAGGAA
-----
1151  TGCATTCCCA GCAGCAATCG AGGACACCTT ATAATATGCT TCCAGTTGGG
      ACGTAAGGGT CGTCGTTAGC TCCTGTGGAA TATTATACCA AGGTCAACCC
-----
1201  GGGATCCATG TGGTACCTGC TGGCCTCACA TACTCCACCT TTGTGCCCCT
      CCCTAGGTAC ACCATGGACG ACCGGAGTGT ATGAGGTGCA AACACGGGGA
-----
1251  TCAGGCTGGA CCAGTGCAGC TCACGATCCC TGCTGTCACT GTCGTTTACA
      AGTCCGACCT GGTACGCTCG AGTGCTAGGG ACGACAGTCA CAGCAAGTGT
-----
1301  GAACTTTGGG TACTCATAGG AATACGGTCA CAGAAGTGTC TGGCACTACA
      CTTGAAACCC ATGAGTATCC TTATGCCAGT GTCTTCACAG ACCGTGATGT
-----
1351  AACCCTGCTG GAGTGGCTGA ATTAAGCAGT GTTGTGCCAT GTATTCCAT
      TTGGGACGAC CTCACCGACT TAATTCGTCA CAACACGGTA CATAAGGATA
-----
1401  CGGCCAAATC CGCGTGCCAG GCCTTCAGAA CCTAAGTACC CCAGGCTTGC
      GCCGGTTTAG GCGCACGGTC CGGAAGTCTT GGATTCATG GGTCCGAACG
-----
1451  AGTCACTCCC CTCGTTAAGC ATGGAACCG TCAATATTGT AGGCCTAGCC
      TCAGTGAGGG GAGCAATTCT TACCTTTGGC AGTTATAACA TCCGGATCGG
-----
1501  AATACAAATA TGGCCCCACA AGTCCATCCA CCAGGACTGG CTCTGAATGC
      TTATGTTTAT ACCGGGGTGT TCAGGTAGGT GGTCTGACC GAGACTTACG
-----
1551  TGTCGGACTG CAGGTTCTGA CTGCAAACCC TTCATCACA AGCAGCCCCG
      ACAGCCTGAC GTCCAAGACT GACGTTTGGG AACTAGTGTT TCGTCGGGGC
-----
1601  CCCCTCAGGC ACACATTCCA GGTCTCCAGA TCTTGAACA AGCATTGCCC
      GGGGAGTCCG TGTGTAAGGT CCAGAGGTCT AGAACTTGTA TCGTAACGGG
-----
1651  ACCTTAATCC CCTCAGTCAG TCAAGTAGCC GTTGATGCAC AGGGAGCTCC
      TGGAATTAGG GGAGTCAGTC AGTTCATCGG CAACTACGTG TCCCTCGAGG
-----
1701  AGAAATGCCA GCTTCCCAA GCAAAGCATG CGAGACACA CCCAAGCAGA
      TCTTTACGGT CGAAGGGTTT CGTTTCGTAC GCTCTGTGTT GGGTTCGTCT
-----
1751  CTTCTGTAGC CAGCGCAAAC CAGGTCAGCA GGACCGAGTC TCCTCAGGGG
      GAAGACATCG GTCGCGTTTG GTCCAGTCGT CCTGGCTCAG AGGAGTCCCC
-----
1801  TTACCTACAG TCCAGCGGGA AAATGCAAAA AAGTTCTGTA ATCCACCTGC
      AATGGAATGC AGGTGCGCCCT TTTACGTTTT TTTCAAGAC1 TAGGTGGACC
-----
1851  CCCTGCAGGT GACCATGCAA GGCTTGATGG CCTGAGTAA ATGGACACAG
      GGGACGTCCA CTGGTACGTT CCGAACTACC GGACTCATT TACCTGTGTC
-----

```

FIGURE 14C (b)



1901 AGAAGGCTGC CTCGGCAAAT CACGTGAAGC CCAAGCCTGA ACTCACTTCC  
TCTTCCGACG GAGCCGTTTA GTGCACTTCG GGTTCGGAAT TGAGTGAAGG

1951 ATACAGGGCC AACCAGCGTC CACGTCACAA CCTCTGCTGA AGGCACATTC  
TATGTCCCGG TTGGTCGCAG GTGCACTGTT GGAGACGAAT TCCGTGTAAG

2001 TGAAGTTTTT ACAAAGCCCT CAGGCCAGCA GACTCTCTCT CCAGACAGAC  
ACTTCAAAAA TGTTTCGGGA GTCCGCTCGT CTGAGAGAGA GGTCTGTCTG

2051 AGGTTCCAG GCCACAGGA CTACCGCGGA GCCAGCCCAC TGTGCACTTC  
TCCAAGGGTC CGGGTGTCTT GATGGCGCCT CCGTCGGGTG ACACGTGAAG

2101 AGCGACGTGA GCAGCGATGA TGACGAGGAC AGGCTTGTGA TAGCAACCTG  
TCGCTGCACT CGTCGCTACT ACTGCTCCTG TCCGAACAAT ATCGTTGGAC

2151 A  
T

FIGURE 14C (c)

## REPLACEMENT SHEET

WO 02/098916

25 / 28

PCT/EP02/07064

SEQ ID NO: 40 and 41

## 2 GAAP-1 POLYPEPTIDE

>GAAP-1

GAAP1 MALGNQKSTVVEFSNKAASENSEQDKNSLTKSEPRRIKTFDGGYKNEKVVYVRGGGGKVICPQGI 70  
FRDII MALGNQKSTVVEFSNKAASENSEQDKNSLTKSEPRRIKTFDGGYKNEKVVYVRGGGGKVICPQGI 70

GAAP1 RCKKPSMLKKHIRHIDVRPYHCTYCNFSFKTRGNLTREMSKAHSKRCVILGVSGLIDEDQDSESDEK 140  
FRDII RCKKPSMLKKHIRHIDVRPYHCTYCNFSFKTRGNLTREMSKAHSKRCVILGVSGLIDEDQDSESDEK 140

GAAP1 QRFYSYERSGYDLRESDCGFEDENENEDDEDSDQAESVLATPSVTASFOHLPSSSLQDPVSTIDEDVRTT 210  
FRDII QRFYSYERSGYDLRESDCGFEDENENEDDEDSDQAESVLATPSVTASFOHLPSSSLQDPVSTIDEDVRTT 210

GAAP1 DCFSGVETDEMVLPRALLTRMTVLSTAQSDVNRKTLSPGKARQRAARDENDTTPSVDTSRSPCHQMSVD 280  
FRDII DCFSGVETDEMVLPRALLTRMTVLSTAQSDVNRKTLSPGKARQRAARDENDTTPSVDTSRSPCHQMSVD 280

GAAP1 YPSESEILRSSMAGKAVATTQSPSSVRLPFAAAEHSPQTAQMPSVASHPHDFQEQROQITLQFTFGLPS 350  
FRDII YPSESEILRSSMAGKAVATTQSPSSVRLPFAAAEHSPQTAQMPSVASHPHDFQEQROQITLQFTFGLPS 350

GAAP1 PEHILFSLPLHSQQQSETFYNNVFGGTHWEAGLTYSTFVFLQAGFVQLITPAVSWVERTLGTHRTIV 420  
FRDII PEHILFSLPLHSQQQSETFYNNVFGGTHWEAGLTYSTFVFLQAGFVQLITPAVSWVERTLGTHRTIV 420

GAAP1 TEVSGTINEAGVAELSSWFCEIPGQIRVFLQNLSTFGLOSLPSLMEIVNTVGLANTMAPQVHPFGL 490  
FRDII TEVSGTINEAGVAELSSWFCEIPGQIRVFLQNLSTFGLOSLPSLMEIVNTVGLANTMAPQVHPFGL 490

GAAP1 ALNAVGLQVLTANPSSQSSPAQAHIFGLQITNDAFLPLPSVSQVAVDAGAPEMERASQSKACETQPRQ 560  
FRDII ALNAVGLQVLTANPSSQSSPAQAHIFGLQITNDAFLPLPSVSQVAVDAGAPEMERASQSKACETQPRQ 560

GAAP1 TSVASANQVSTESPOGLPTVQRENARKVLNPPAPAGCHARDGLSMOTERASANEVAKPKPLTSTQG 630  
FRDII TSVASANQVSTESPOGLPTVQRENARKVLNPPAPAGCHARDGLSMOTERASANEVAKPKPLTSTQG 630

GAAP1 QFASTSQPLLKARSEVFTKPSGQQTLSPIRQVFRPTGLRRQPTVHFSQVSSDDDEDLNLTAT 694  
FRDII QFASTSQPLLKARSEVFTKPSGQQTLSPIRQVFRPTGLRRQPTVHFSQVSSDDDEDLNLTAT 694

FIGURE 15 A

## 2 GAAP-1 POLYPEPTIDE

&gt;GAAP-1

M GQKFQKKR..ALGNKSTVVEFSNKAASKINSBQDKENSLIKSEPRRIKIFDGGYKSNEEVVWVRGGGKVTCEPGI

GAAP1 RCKKPSMLKKHRIHIDVRPYHCYCNFSPTKGNLIRHMSKAHSKRCVDLGVSUGLIDEQUTRESDEK

GAAP1 QRFYSYERSGYDLRESDEPDEEDNENEDDEDSQAESVLSATPSVTASFOHLPSSSLQDFVSTDEVRIT

GAAP1 DCFSGVEIDMDVLPFRALLTRMTVLSTAQSDYNRCTLSPGKARQRAARDENOTTESVDTSRSPCHQMSVD

GAAP1 YPFESEITLRSSMAGKAVATTQSPSSVRLPFAAAHSPQTAAGMPSVASHPDQEQKQQTTLQFTPLPS

GAAP1 PTHLFSHLPLHSQQQSRTPYNMVPGGIRVPEGLTYSTFVFLQAGFVQLTTPAVSVWHRTLGTHRTV

GAAP1 TEVSGTINEAGVAELSSWVFCIFGQIRVPLQLNSTPGLQSLPSLMEIVNIVGLANINMAPQVHPGL

GAAP1 A<sup>1</sup>NAVGLQMLTANPSSQSSPAQAHITGLQILNIALPLIPSVSQVAVDQAGAFEMPASQSQACETQPRQ

GAAP1 TSVASANQVSRITESPQGLPTVQRENARKVLNPPAPAGCHARDGLSRMDEKAASANEVKRPELTSIQG

GAAP1 QPASTSQFLIKAHSEVFTKPSQQQLSPDRQVPRPTALRRQPTVHFSDVSSDDDEDRNLTAT

FIGURE 15 B

## REPLACEMENT SHEET

WO 02/098916

PCT/EP02/07064

27 / 28

GAAP-2

SEQ ID NO: 47

1 MGQKFQKKKS YRLVLKELRN PLKRALGNQK STVVEFSNKO ASEINSEQDK  
-----  
51 ENSLIKSEPR RIKIFDGGYK SNEEYVYIRG RGRGKYICEE CGIRCKKPSM  
-----  
101 LKKHIRTHTD VRPYHCTYCN FSKTKGNLT KRMKSKAHSK KCVDLGISVG  
-----  
151 LIDEQDTEES DEKQRFSEYER SGYDLEESDG PDEDDNENDO DDEDSQAESV  
-----  
201 LSATPSVTAS PQHLPSRSSL QDPVSTDEDV RITDCFSGVH TDPMDVLPRA  
-----  
251 LLTRMTVLST AQSDYNRRTL SPGKARQRAA RDENDTIPSV DTSRSPCHQM  
-----  
301 SVDYPESEEI LRSSMAGKAV AITQSPSSVR LPPAAAEHSP QTAAGMPSPA  
-----  
351 SPHPDPQEQK QQITLQPTPG LPSPTHLS HLPLHSQQQS RTPYNMVPVG  
-----  
401 GIHVVPAGLT YSTFVPLQAG PVQLTIPAVS VVHRTLGTHR NTVTEVSGTT  
-----  
451 NPAGVAELSS VVPCIPIGQI RVPGLQNLST PGLQSLPSLS METVNIVGLA  
-----  
501 NTNMAPQVHP PGLALNAVGL QVLTANPSSQ SSPAPQAHIP GLQILNIALP  
-----  
551 TLIPSVSQVA VDAQGAPEMP ASQSKACETQ PKQTSVASAN QVSRTESPQG  
-----  
601 LPTVQRENAK KVLNPPAPAG DHARLDGLSK MDTEKAASAN HVKPKPELTS  
-----  
651 IQGQPASTSQ PLLKAHSEVF TKPSGQQTLS PDRQVPRPTG LPRRQPTVHF  
-----  
701 SDVSSDDDED RLVIAT  
-----

FIGURE 15 C